

ABSTRACT

A flat panel display device includes a first substrate, an electron emission assembly formed on the first substrate, a second substrate provided at a predetermined distance from the first substrate and forming a vacuum assembly with the first substrate, and an illumination assembly formed on the second substrate, the illumination assembly being illuminated by electrons emitted from the electron emission assembly. The illumination assembly includes at least one anode electrode formed on a surface of the second substrate facing the first substrate, phosphor layers formed in a predetermined pattern on the at least one anode electrode, and conductive layers formed of a carbon-based material on the phosphor layers.